

EXHIBIT L

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UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA
SAN FRANCISCO DIVISION

GOOGLE LLC,

Plaintiff and Counter-defendant,

v.

SONOS, INC.,

Defendant and Counter-claimant.

Case No. 3:20-cv-06754-WHA
Related to Case No. 3:21-cv-07559-WHA

**FIRST SUPPLEMENTAL
REPLY EXPERT REPORT OF
DR. KEVIN C. ALMEROOTH**

65. The table below summarizes my observations of the three above-described scenarios for creating a new speaker group of Accused Google Players installed with newly-released firmware version 1.56.324896 and/or firmware version 1.63. As set forth in the table below, the first column describes the group creation scenario in terms of the operating modes and playback states of Accused Google Players before being added to a new speaker group; the second column describes the operating modes and playback states of the Accused Google Players after being added to the new speaker group; and the third column notes whether Dr. Schonfeld addressed the group creation scenario in his Rebuttal Report.

66.

Creating a New Speaker Group		
Group Creation Scenario	Group Creation Result	Schonfeld Rebuttal Report?
Scenario #1		
First Accused Google Player operating in standalone mode and <u>not</u> engaging in active playback Second Accused Google Player operating in standalone mode and individually engaging in active playback	First Accused Google Player continues operating in standalone mode and continues to <u>not</u> engage in active playback Second Accused Google Player continues operating in standalone mode but stops engaging in active playback	Yes - <i>see</i> Schonfeld Rebuttal Report at ¶¶ 55, 57 ⁶
Scenario #2		
First Accused Google Player operating in standalone mode and individually engaging in active playback Second Accused Google Player operating in standalone mode and	First Accused Google Player continues operating in standalone mode but stops engaging in active playback Second Accused Google Player continues operating in standalone	Yes - <i>see</i> Schonfeld Rebuttal Report at ¶ 56

⁶ Paragraph 57 of Dr. Schonfeld's Rebuttal Report describes a scenario where one Accused Google Player is not engaging in active playback and two Accused Google Players are engaging in active playback at the time that they are all added to a new speaker group. However, based on the testing I oversaw and directed, regardless of the number of Accused Google Players that are not engaging in active playback or are individually engaging in active playback at the time that they are added to a new speaker group, each Accused Google Player not engaging in active playback continues to operate in standalone mode and continues to not engage in active playback, and each Accused Google Player that is individually engaging in active playback continues to operate in standalone mode but stops engaging in active playback.

individually engaging in active playback	mode but stops engaging in active playback	
Scenario #3		
First Accused Google Player operating in standalone mode and <u>not</u> engaging in active playback	First Accused Google Player continues operating in standalone mode and continues to <u>not</u> engage in active playback	No
Second Accused Google Player operating in standalone mode and <u>not</u> engaging in active playback	Second Accused Google Player continues operating in standalone mode and continues to <u>not</u> engage in active playback	

67. As shown and described above and in **Appendix A**, an Accused Google Player installed with newly-released firmware version 1.56.324896 and/or firmware version 1.63 that is operating in standalone mode is capable of being added to a new speaker group regardless of whether or not the Accused Google Player is engaging in active playback. This functionality provided by newly-released firmware version 1.56.324896 has not changed from the prior firmware versions that I analyzed in my 11/30/2022 Opening Report. *See, e.g.,* 11/30/2022 Almeroth Opening Report at ¶¶ 199-226.

68. As also shown and described above and in **Appendix A**, when an Accused Google Player installed with newly-released firmware version 1.56.324896 and/or firmware version 1.63 is operating in standalone mode and not engaging in active playback at the time the Accused Google Player is added to a new speaker group, the observable behavior of the Accused Google Player will not change – it will continue to operate in standalone mode and will continue to not engage in active playback after the new speaker group is created and saved. In this respect, the behavior of an Accused Google Player that I observed in these scenarios is no different from how an Accused Google Player behaved when installed with the prior firmware versions that I analyzed in my 11/30/2022 Opening Report. *See, e.g.,* 11/30/2022 Almeroth Opening Report at ¶¶ 199-226; 1/25/2023 K. MacKay Rough Dep. Tr. at 50:25-51:24 (Google’s corporate designee confirming that in a scenario where an Accused Google Player being added to a new speaker group is not running a current receiver app, there will be no change to the “operational behavior” of the

1 Google Player for receiving and handling a "join_group" message for a new speaker group that is
2 sent by an Accused Google Controller after the Accused Google Player has been added to the new
3 speaker group:

- 4 • [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]

7 See 11/30/2022 Almeroth Opening Report at ¶ 459.

8 89. While I did not expressly memorialize it in my 11/30/2022 Opening Report [REDACTED]

9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED] See 1/25/2023 K. MacKay Rough Dep. Tr. at
14 9:14-10:4, 23:5-8 (Google's corporate designee confirming that in previous [REDACTED]
15 [REDACTED]
16 [REDACTED]

17 90. As noted in my 11/30/2022 Opening Report, my understanding is that this source
18 code is representative of the source code for the firmware versions that had been released by
19 Google from the time that the infringing timeframe began on November 5, 2019 until the
20 November 30, 2022 date of my Opening Report.

21 91. Further, there is no dispute that the [REDACTED]
22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]

1 [REDACTED]
2 [REDACTED] This is confirmed
3 by the Court's summary judgment ruling, which found that Accused Google Players installed with
4 firmware versions available as of July 21, 2022 – [REDACTED]
5 [REDACTED] – satisfied the limitation of Asserted Claim 1 of the '885 Patent
6 requiring the Accused Google Players to “continu[e] to operate in the standalone mode” after
7 receiving the “join_group” messages accused of meeting the “indication” limitations of Asserted
8 Claim 1 of the '885 Patent. *See* D.I. 309 at 6-11. My understanding is that Google is bound by
9 this summary judgment ruling and precluded from challenging that an Accused Google Player
10 programmed with the functionality [REDACTED] continues to
11 operate in “standalone mode” after being added to a new speaker group and receiving “join_group”
12 message indicating that the Accused Google Player has been added to the new speaker group.

13 92. [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22 [REDACTED]
23
24
25
26
27
28

1 Rebuttal Report:

2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]
8 [REDACTED]

9 Schonfeld Rebuttal Report at ¶ 59 (citing SC-GOOG-SONOSNDCA-001637 – 38); *see also*
10 1/25/2023 K. MacKay Rough Dep. Tr. at 9:19-11:4, 23:13-16 (Google's corporate designee
11 testifying that [REDACTED]

12 [REDACTED]
13 [REDACTED]
14 [REDACTED]); Sonos Dep. Ex. 1320-1321.

15 93. In this respect, my understanding of how [REDACTED]

16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED] In this respect, [REDACTED]

22 [REDACTED]
23 [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED]

27 [REDACTED] However, in either case, [REDACTED]
28 [REDACTED]

1 [REDACTED]
2 [REDACTED]
3 [REDACTED]
4 [REDACTED]
5 [REDACTED]
6 94. My understanding of the [REDACTED] function has been
7 confirmed by the testimony of Google's corporate designee, Mr. Kenneth MacKay. *See, e.g.,*
8 1/25/2023 K. MacKay Rough Dep. Tr. at 15:22-21:8 (testifying about the portion of the
9 [REDACTED]), 23:17-33:9
10 (describing the operation of [REDACTED]), 33:10-13 (confirming that the
11 [REDACTED]
12 [REDACTED]), 33:14-34:1 (confirming that there is [REDACTED]
13 [REDACTED]), 34:2-9 (confirming that the [REDACTED]
14 [REDACTED]); 41:22-48:2 (describing the operation of the
15 [REDACTED]),
16 48:12-55:9, 56:16-62:14 (describing the operation of the [REDACTED]
17 [REDACTED]).⁷

18 95. Moreover, [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 "continuing to operate in the standalone mode" limitation of Asserted Claim 1 of the '885 Patent.
22

23 ⁷ Mr. MacKay also testified that there may be scenarios where the [REDACTED]
24 [REDACTED]
25 [REDACTED]
26 [REDACTED] *See* 1/25/2023 K. MacKay Rough Dep. Tr. at 27:7-28:1,
27 31:6-32:1, 43:15-45:6. These scenarios provide further support for my opinions, because even
28 under Dr. Schonfeld's apparent theory that no longer running an app amounts to leaving
"standalone mode," there will be scenarios where an Accused Google Player [REDACTED]
[REDACTED]

1 is added to a group that is not playing back music will stop playback when added
2 to that group.

3 Schonfeld Rebuttal Report at ¶ 47. However, this statement is flawed for several reasons.

4 98. First, Dr. Schonfeld's suggestion that "speakers added to the group *no longer*
5 *continue their previous activity* and instead either play back music (if that is what the group was
6 doing) or stop playback to match the group's state of stopped playback" is incomplete and
7 inaccurate. As set forth above in Section IX.A, there are a number of scenarios where Accused
8 Google Players installed with newly-released firmware version 1.56.324896 "continue their
9 previous activity" after being added to a speaker group. For instance, in any scenario where an
10 Accused Google Player installed with newly-released firmware version 1.56.324896 is operating
11 in a standalone mode and is not engaging in active playback at the time when it is added to a new
12 speaker group, that Accused Google Player will "continue [its] previous activity" after being added
13 to the speaker group by continuing to operate in standalone mode and continuing not to engage in
14 active playback. Likewise, in any scenario where an Accused Google Player installed with newly-
15 released firmware version 1.56.324896 is operating in a standalone mode and is not engaging in
16 active playback at the time when it is added to a pre-existing speaker group that is unlaunched,
17 that Accused Google Player will "continue [its] previous activity" after being added to the pre-
18 existing speaker group by continuing to operate in standalone mode and continuing not to engage
19 in active playback.

20 99. Second, for similar reasons, Dr. Schonfeld's suggestion that "[s]peakers added to a
21 speaker group do not continue with their previous playback or *non-playback state* when added to
22 a group" is incomplete and inaccurate. Again, as set forth above in Section IX.A, there are a
23 number of scenarios where Accused Google Players installed with newly-released firmware
24 version 1.56.324896 "continue with their previous . . . *non-playback state*" after being added to a
25 speaker group, including but not limited to the scenarios mentioned in the preceding paragraph.

26 100. Third, Dr. Schonfeld's suggestion that when an Accused Google Player installed
27 with newly-released firmware version 1.56.324896 is added to a new speaker group, the Accused
28 Google Player "stop[s] playback to match the group's state of stopped playback" is an inaccurate

1 and misleading characterization of the functionality for creating a new speaker group. In scenarios
2 where an Accused Google Player is added to a new speaker group being created, the group begins
3 in an uninvoked state (or an unlaunched state in Google's terms) not a "state of stopped
4 playback" as Dr. Schonfeld contends and the Accused Google Player makes no reference to the
5 "group's state" when handling the "join_group" message indicating that the Accused Google
6 Player has been added to the new speaker group.

7 101. Indeed, an Accused Google Player installed with newly-released firmware version
8 1.56.324896 carries out the same functionality for handling the "join_group" message that was
9 previously carried out by Accused Google Players installed with prior firmware versions, which
10 undisputedly did not involve any "match[ing]" of the "group's state," along with [REDACTED]
11 [REDACTED] discussed above. However, this [REDACTED]
12 [REDACTED] does not make any reference to the "group's state," let alone causes the Accused Google
13 Player to "match the group's state of stopped playback" as Dr. Schonfeld contends. Instead, the
14 [REDACTED] merely causes the Accused Google Player to stop its current receiver
15 app, to the extent that such a receiver app is running. In this respect, if the receiver app being run
16 by the Accused Google Player is currently causing the Accused Google Player to engage in active
17 playback, then the [REDACTED] will cause the Accused Google Player to stop that
18 active playback, whereas if the receiver app being run by the Accused Google Player is not
19 currently causing the Accused Google Player to engage in active playback, then the
20 [REDACTED] will not impact the playback state of the Accused Google Player
21 but in either case, the additional call to the [REDACTED] does not cause an Accused
22 Google Player to "match the group's state of stopped playback." And in a scenario where the
23 Accused Google Player is not currently running a receiver app, the [REDACTED]
24 will have no impact at all on the state of the Accused Google Player. The foregoing operation of
25 the [REDACTED] is confirmed by the testimony of Mr. MacKay cited above.

26 102. Turning to Dr. Schonfeld's discussion of the functionality for modifying a pre-
27 existing speaker group that is encoded within newly-released firmware version 1.56.324896, Dr.
28 Schonfeld begins that discussion by making the following statement:

1 133. Second, this non-infringement theory is premised on Dr. Schonfeld's opinion that
2 when an Accused Google Player installed with firmware version 1.56.324896 is added to a new
3 speaker group via an Accused Google Controller, the Accused Google Player stops operating in
4 "standalone mode" and "immediately begins operating as a member of the group, for example by
5 playing music or not playing music, which varies based on the current operation of the group."
6 *See* Schonfeld Rebuttal Report at ¶ 88. I disagree.

7 134. As a starting point, newly-released firmware version 1.56.324896 has no impact on
8 the observable behavior of an Accused Google Player in a scenario where the Accused Google
9 Player is configured for individual playback (rather than grouped playback) but is not currently
10 engaged in active playback at the time that it is added to a new speaker group. Indeed, in such a
11 scenario, an Accused Google Player installed with newly-released firmware version 1.56.324896
12 behaves in the same way that Accused Google Players installed with prior firmware versions
13 behaved, namely, the Accused Google Player handles the `join_group` message received from the
14 Accused Google Controller without leaving "standalone mode" or making any change to the
15 Accused Google Player's inactive playback state. Thus, because an Accused Google Player
16 installed with newly-released firmware version 1.56.324896 behaves in the same way that Accused
17 Google Players installed with prior firmware versions behaved in at least one of the infringing
18 scenarios that was presented to the Court as part of Sonos's summary judgment motion, it is my
19 opinion that Accused Google Players installed with newly-released firmware version 1.56.324896
20 still infringe Asserted Claim 1 of the '885 Patent for the same reasons discussed in the Court's
21 July 21, 2022 order. *See* 1/25/2023 K. MacKay Rough Dep. Tr. at 50:25-51:24 (Google's
22 corporate designee confirming that in a scenario where an Accused Google Player being added to
23 a new speaker group is not running a current receiver app, there will be no change to the
24 "operational behavior" of the player which is no different than what happens in the prior firmware
25 versions in this scenario).

26 135. Moreover, even focusing on a scenario where an Accused Google Player installed
27 with firmware version 1.56.324896 is configured for individual playback and is currently engaged
28 in active playback at the time that it is added to a new speaker group, I disagree with Dr.

1 Schonfeld's opinion that such an Accused Google Player "*begins operating as a member*
2 *of the group*, for example by playing music or not playing music," which is contradicted by the
3 evidence I have reviewed.

4 136. For example, the testing I observed demonstrated that an Accused Google Player
5 installed with firmware version 1.56.324896 does not start operating in a grouped mode when it is
6 added to a new speaker group. See Section IX.A. This is confirmed by the fact that (i) the new
7 speaker group is not launched or otherwise activated at the time it is created and (ii) the only
8 observable change in the behavior of the Accused Google Player being added to the new speaker
9 group is that if the Accused Google Player was engaging in active playback prior to being added
10 to the new speaker group, it stops that active playback. *Id.* Thus, there was nothing in the testing
11 I observed even suggesting that an Accused Google Player installed with firmware version
12 1.56.324896 starts operating in a grouped mode when it is added to a new speaker group.

13 137. Consistent with the testing I observed, [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED] And as already explained above, this
17 [REDACTED] does not cause the Accused Google Player to start operating in a
18 grouped mode or to otherwise engage in any behavior in accordance with a speaker group. Instead,
19 the [REDACTED] merely causes the Accused Google Player to stop its currently-
20 running receiver app (to the extent that there is a receiver app currently running at the Accused
21 Google Player). In this respect, if the Accused Google Player is currently engaging in active
22 playback, then the [REDACTED] will cause the Accused Google Player to stop that
23 active playback, whereas if the Accused Google Player is not currently engaging in active
24 playback, then the [REDACTED] will not impact the playback state of the Accused
25 Google Player – but either way, the [REDACTED] will not cause the Accused
26 Google Player to leave "standalone mode" and "immediately begin[] operating as a member of the
27
28

238. As an initial matter, Dr. Schonfeld does not offer an opinion as to whether Google has committed acts of indirect infringement under my understanding of the law. To reiterate, independent Asserted Claim 1 of the '885 Patent is directed to a "first zone player" programmed with the capability to carry out the functions recited in elements 1.5-1.10. Similarly, Asserted Claim 1 of the '966 Patent is directed to a "computing device" that is programmed with the capability to carry out the functions recited in elements 1.4-1.11. And independent Asserted Claim 9 of the '966 Patent, is directed to a "computer readable medium" provisioned with program instructions that are executable to cause a computing device to perform the functions recited in elements 9.1-9.8. I understand that when claims are drawn to *capability*, such as each of these independent claims (as well as each of the dependent claims that ultimately depend from these independent claims), that direct infringement occurs as soon as an entity makes, uses, sells, offers for sale, or imports into the United States a device that is programed with the functional capability to engage in all of the elements recited in the claim, even if that entity never causes the device to actually engage in the functional steps recited by the claim. In this respect, I understand that (unlike for method claims) actual performance of the underlying functional elements is not required for direct infringement of claims drawn to capability.

239. Similarly, I understand that to induce infringement, an entity must cause, aid, or encourage direct infringement by another. In particular, I understand that a party induces infringement when (i) the party acted with the intent to encourage, aid, instruct, or otherwise cause another party to commit an act or acts that, if done by that other party, would constitute direct infringement of at least one claim of an asserted patent; (ii) the party at the time had knowledge or was willfully blind as to the existence of the asserted patent and the fact that the party's actions would lead the other in question to infringe the asserted patent directly; and (iii) the other party directly infringed at least one claim of the asserted patent. Thus, in this respect, I understand that for claims drawn to capability (like the asserted claims), the act of encouraging, aiding, instructing, or otherwise causing another to commit direct infringement occurs when the inducing party encourages, aids, instructs, or otherwise causes another to make, use, sell, offer for sale, or import into the United States a device that is programed with the functional capability to engage in all of

1 the elements recited in the claim (as this is a sufficient condition for direct infringement to occur),
2 and that it is not necessary for the inducing party to encourage, aid, instruct, or otherwise cause
3 another to engage in actual performance of the underlying functional steps recited by the claim.

4 240. Dr. Schonfeld does not offer any opinion as to whether Google has engaged in acts
5 of indirect infringement of each of the asserted claims of the '885 and '966 Patents under my
6 understanding of the law, nor does he dispute that there has been indirect infringement under my
7 understanding of the law.¹⁸

8 241. Instead, Dr. Schonfeld sets forth a theory based on what appears to be an alternate,
9 incorrect, understanding of the law of indirect infringement that would require Google's actions
10 of encouraging, aiding, instructing, or otherwise causing another to commit direct infringement to
11 be encouraging, aiding, instructing, or otherwise causing another to carry out the specific
12 functionality recited by the individual elements of the claims (i.e., actual performance of the
13 functional elements of the claim). As I explained, this is a flawed understanding of the law of
14 indirect infringement and indirect infringement does not require evidence that Google, for
15 instance, encouraged others to operate the Accused Google Controller and Accused Google
16 Players by actually creating and saving overlapping speaker groups and invoking those speaker
17 groups for synchronous playback.

18 242. Even if this were a requirement, however, Google's marketing material and
19 instructions to customers do, in fact, encourage performance of the specific functional steps recited
20 by the asserted claims. As one example, GOOG-SONOSWDTX-00007122 is a support page
21

22 ¹⁸ I further note that Dr. Schonfeld does not dispute several factual matters that underpin my
23 opinion that indirect infringement has occurred. In particular, Dr. Schonfeld does not dispute the
24 evidence that I pointed to that shows (i) Google's customers have purchased and then used the
25 Accused Google Players, (ii) Google's customers have installed firmware updates on the Accused
26 Google Players, (iii) Google's customers have downloaded and installed (or updated a previous
27 installation of) the Google Home App onto computing devices that they purchased from Google
28 or obtained from a third party, (iv) Google requires users (and instructs them) to download and
install the Google Home App onto computing devices in order to set up, configure, and use the
Accused Google Players, (v) Google has encouraged customers to download, install, and then use
the Google Home App on computing devices, (vi) Google encourages customers to purchase and
then use the Accused Google Players, and (vii) Google encourages or forces the Accused Google
Players to receive firmware updates.

published by Google that encourages customers to “[g]roup any combination of Google Nest or Google Home speakers and displays and Chromecast devices together for synchronous music throughout the home.” “[A]ny combination” would be understood to mean the types of combinations articulated by the claims, which include two overlapping speaker groups, where one Accused Google Player is a member of both of these speaker groups. The page goes on to explain and encourage exactly how to create a speaker group by articulating a series of five steps for operating the Google Home App to create a speaker group. GOOG-SONOSWDTX-00007122. As I explained in my opening report, these are the steps that establish that the Accused Google Controllers and the Accused Google Players are programmed with the functional capability to engage in the steps recited by the Asserted Claims. Accordingly, even under Dr. Schonfeld’s erroneous understanding of the law, Google has engaged in acts of induced infringement.

2. Contributory Infringement

243. Dr. Schonfeld provides some additional (flawed) opinions under the header “Dr. Almeroth Has Not Established Contributory Infringement of the ’885 Patent or ’966 Patent” – although these opinions appear to concern indirect infringement generally as opposed to contributory infringement specifically. I disagree with his opinions and conclusions and provide explanations below where relevant. For all the reasons set forth in my opening report, my opinion remains that Google has and is engaging in acts of induced and contributory infringement.

244. Dr. Schonfeld opines that Google has not engaged in acts of contributory infringement for at least the reason that “knowledge of the asserted patents itself is not enough to meet the specific intent requirement.” 1/13/2023 Schonfeld Rebuttal Report at ¶ 81. However, the evidence I identified in my 11/30/2022 Opening Report indicates that Google had both (i) knowledge of the Asserted Patents, and (ii) knowledge of how and why the Accused Google Players and the Google Home App practiced the asserted claims via at least Sonos’s infringement contentions and allegations set forth in Sonos’s pleadings documents and throughout the litigation. Additionally, the evidence I identified in my 11/30/2022 Opening Report indicates that Google engaged in the articulated acts of contributory (and induced) infringement with this specific knowledge, and with the further knowledge that its customers were engaging in acts that Google

1 knew to result in direct infringement of the asserted claims (e.g., making and using the Accused
2 Google Controllers and the Accused Google Players). Thus, I disagree with Dr. Schonfeld's
3 implication that Google lacked the specific intent required for indirect infringement.

4 245. Dr. Schonfeld opines that "I understand that Google had strong defenses and
5 therefore good reason to believe it did not infringe the asserted patents." 1/13/2023 Schonfeld
6 Rebuttal Report at ¶ 81. Dr. Schonfeld does not explain the basis for this understanding or
7 articulate what the "good reason" was or is. Instead, he summarily cites to a number of disparate
8 documents, such as Google's "declaratory judgment filing," "Answers to Sonos's Counterclaims,"
9 and its "interrogatory documents." Dr. Schonfeld fails to even purport to analyze these documents
10 or cite to anything within these documents that would constitute any reasonable belief by Google
11 that the Accused Google Controllers and Accused Google Players did not practice the asserted
12 claims and thus that the articulated acts of indirect infringement by Google were not resulting in
13 acts of direct infringement with Google's knowledge.

14 246. To the contrary, I am not aware of any reasonable belief by Google (Dr. Schonfeld
15 has articulated none) that the Accused Google Controllers and the Accused Google Players did not
16 practice the asserted claims. In fact, every purported non-infringement position that Google had
17 concerning Asserted Claim 1 of the '885 Patent was rejected on summary judgment by the Court.
18 In finding summary judgment of infringement, I understand that the Court concluded that no
19 reasonable jury could have found non-infringement under Google's non-infringement positions.
20 This establishes that these non-infringement positions were not "strong defenses" or "good reason"
21 to believe Google did not infringe. And as I have outlined above, Google's positions concerning
22 the Asserted Claims of the '966 Patent are similarly meritless. Further, after summary judgment
23 of infringement was entered, Google did stop encouraging third parties to (i) offer to sell, sell,
24 make, use, and/or import the Accused Google Players, which are the activities that constitute direct
25 infringement of Asserted Claim 1 of the '885 Patent, or (ii) make and/or use the Accused Google
26 Controllers, which are the activities that constitute direct infringement of the Asserted Claims of
27 the '966 Patent.

28 247. Dr. Schonfeld then takes issue with my contention that the software components

1 supplied by Google (e.g., the software components of the Google Home App software package
2 that Google provides to customers via app stores and the software components of the firmware
3 updates Google provides to Accused Google Players) have no non-infringing uses. Dr. Schonfeld
4 purports to address my no non-infringing use opinions, but points only to Section IX (which
5 addresses the accused functionality of creating speaker groups) and Sections XIV and XVII (which
6 address actual or hypothetical changes to the accused functionality) of his 1/13/2023 Rebuttal
7 Report. None of these sections dispute my opinion that the accused software components have no
8 non-infringing use because their only use is to be installed onto accused computing devices (e.g.,
9 a firmware update installed onto an Accused Google Player or the Google Home App software
10 package installed onto a computing device, such as a Pixel 6 mobile phone). Indeed, once these
11 software components are installed onto a computing device, an infringing instrumentality has been
12 made, and thus direct infringement has occurred, as I have explained above and in my 11/30/2022
13 Opening Report. Based on my understanding of the governing legal standard, it is not relevant to
14 the analysis whether the device, already installed with the accused software components, can
15 engage in functionality that is not recited in the asserted claims (e.g., functionality related to
16 Google Assistant, or functionality related to establishing a WiFi hotspot) because the device
17 already infringes by virtue of having been installed with the accused software components, which,
18 as soon as the installation takes place, renders the device with the functional capability to carry out
19 the functions recited in the asserted claims and thus completes an act of direct infringement.

20 248. In sum, there is no non-infringing uses for the software components other than to
21 be installed on computing devices, which is an act of direct infringement. Dr. Schonfeld does not
22 dispute this or even address it.

23 **XIV. IMPORTANCE AND TECHNOLOGICAL BENEFITS OF THE CLAIMED**
24 **TECHNOLOGY**

25 249. In my 11/30/2022 Opening Report, I set forth my opinion that both Google and its
26 customers derive substantial benefit from Google's use of the claimed technology of the '885 and
27 '966 Patents in the Accused Google Controllers and Accused Google Players. See 11/30/2022
28 Almeroth Opening Report at ¶¶ 706-730. Despite Google's own website, internal documents, and